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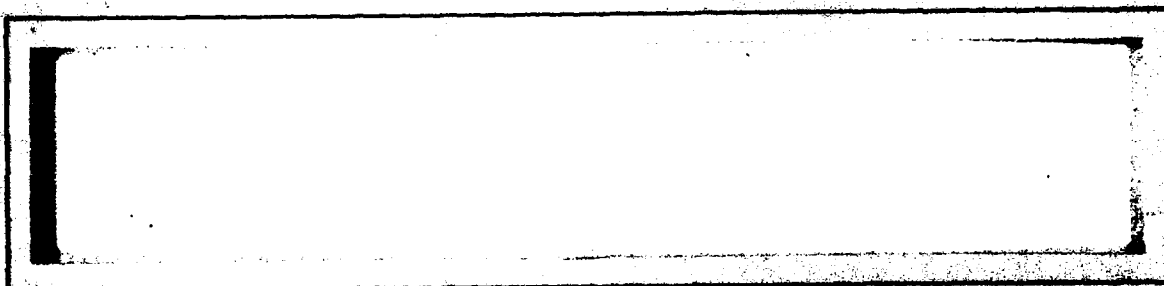
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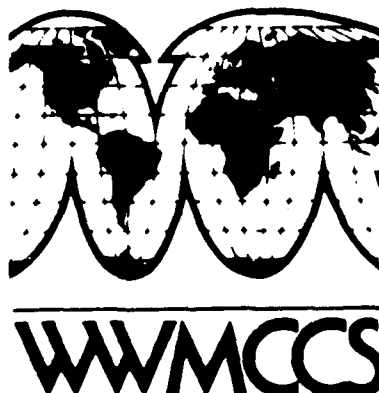
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FUNCTIONAL TEST REPORT

TASK 8004, SUBTASK 2

NOVEMBER 21, 1980

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report documents the results of performing the tests in the <u>WWW.M.CCS</u> SACLANT Remote Network Processor Test and Verification Procedures dated 18 Aug 1980. All problems identified during formal test have been documented as well.		

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CCTC TASKING STATEMENT 8004
SUBTASK 2

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PREPARED FOR:

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CONTRACT NUMBER:

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SECTION 1. GENERAL

1.1 Purpose

The purpose of this Functional Test Report is to:

- a. Briefly describe the tests performed in the execution of the WWMCCS SACLANT Remote Network Processor (SRNP) Test And Verification Procedures (Draft), 18 August 1980, using System Release 7.2B with the modification to implement the SACLANT FILTER as delivered under this task. This effort took place at the Command and Control Technical Center, Reston, Virginia.
- b. Document the results of the tests performed.
- c. Identify problems encountered during testing.

1.2 References

The following references were utilized in conducting the tests and in preparing this report:

- a. WWMCCS SACLANT Remote Network Processor (SRNP) Test And Verification Procedures (Draft), 18 August 1980.
- b. SACLANT User's Guide (Final) For Remote Network Processor (RNP) Release 4.0, 17 September 1979.
- c. SACLANT Software Release Bulletin (Final) For Remote Network Processor RNP) Release 4.0, 21 September 1979.

SECTION 2. TEST RESULTS

2.1 Introduction

The WWMCCS SACLANT Remote Network Processor (SRNP) Test And Verification Procedures were executed using WWMCCS Release 7.2B with the modifications to implement the SACLANT FILTER.

2.2 RNP Software Assembly

- a. Test SAC2-01 - This test was not required since the Host Resident Software System (HRSS) was Government Furnished Equipment. (HRSS tape number 5887).
- b. Test SAC2-02 - Performed a good assembly.

2.3 SRNP Disk Preparation

- a. Test SAC2-03 - Successfully generated DUMP 64 Program.
- b. Test SAC2-03A - Successfully formatted the SRNP disk.

2.4 H6000 File System Support

- a. Test SAC2-04 - Successfully generated Link Text Loader.
- b. Test SAC2-04A - Produced System Master Catalogs (SMC's) with correct attributes.
- c. Test SAC2-05 - Produced a correct permission list for each SMC.

2.5 SRNP Off-Line Disk Preparation

- a. Test SAC3-01 - Successfully bootloaded the SACLANT off-line utility program.
- b. Test SAC3-02 - Correctly initialized the SRNP disk with the USERID conversion table.

2.6 System Initialization

- a. Test SAC4-01 - Successfully bootloaded the H700 with SACLANT RNP software.
- b. Test SAC4-02 - Was not performed due to nonavailability of 7.2B compatible Console-to-Console H6000 software.
- c. Test SAC4-03 - Was not performed due to nonavailability of 7.2B compatible Console-to-Console H6000 software.

- d. Test SAC4-04 - Successfully dumped the H700 system.
- e. Test SAC4-05 - Successfully provided an H700 formatted system dump.

2.7 VIP Terminal Operation

- a. Test SAC5-01 - Failed because WWMCCS Release 7.2B does not send the "SYSTEM?" message upon which H700 SACLANT keys for recognition of successful log-on. Patches were provided to H700 SACLANT to circumvent this problem. Test SAC5-01 was then successful.
- b. Test SAC5-02 - Successfully logged-on a VIP 786W.

2.8 Communications Status Command

- a. Test SAC5-06 - Produced proper control of the communication device and returned correct statuses.

2.9 Host Operator Control

- a. Test SAC5-07 - Verified the proper effects of the H6000 terminal control commands.

2.10 Remote Batch Functionality

- a. Test SAC5-08 - Produced correct output control with thru the \$*\$OUT card.
Test SAC5-10
- b. Test SAC5-11 - Produced correct control card effects.
- c. Test SAC5-12 - (Multiple job-submission capability) failed; documentation was furnished to the Task Officer for STAR submission.
- d. Test SAC5-12.1-Executed successfully.

2.11 Operator Console Commands

- a. Test SAC5-13 - Provided proper results from the Assign Device command.
- b. Test SAC5-14 - Provided proper results from the Close Processor command.
- c. Test SAC5015 - Provided proper results from the Cancel Assignment command.
- d. Test SAC5-16 - Provided proper results from the Enable Device command.
- e. Test SAC5-17 - Provided proper results from the File Abort command.

- f. Test SAC5-18 - Provided proper results from the File Backspace command.
- g. Test SAC5-19 - Provided proper results from the Process Records.
- h. Test SAC5-20 - Provided proper results from the Resume Processing command.
- i. Test SAC5-21 - Provided proper results from the Terminate Processor command.
- j. Test SAC5-22 - Successfully verified that extended Remote Batch Operator commands operated correctly for Job Status, Abort, Request Output, and Cancel Output requests.
- k. Test SAC5-23 - Successfully verified that the Forward Space Output command works.

2.12 Time Sharing System (TSS) Patch Test

- a. Test SAC6-01 - Verified correct subsystem access thru denial or allowance in all cases
- Test SAC6-03 except the BPRINT/BPUNCH subsystem.

2.13 Management Data Query System (MDQS) Restriction Set

- a. Test SAC6-04 - Verified proper capabilities of the SACLANT nonrestricted user.
- b. Test SAC6-05 - Verified proper capabilities of the SACLANT restricted user.
- c. Test SAC6-06 - Verified proper capabilities of the SACLANT TSS Patch protected user.
- d. Test SAC6-07 - Verified that the Data Base Manager commands are available to the Data Base Manager USERID.

2.14 Disk Accounting Save and Display

- a. Test SAC7-01 - Verified that the normal operation accounting data was recorded properly.
- b. Test SAC7-02 - Verified that the SRNP operation could be restarted without destroying the continuity of the accounting file.
- c. Test SAC7-03 - Verified that the accounting file was recoverable.

SECTION 3. TESTING PROBLEMS

3.1 Problems

- a. In order for users to log-on to SACLANT systems, the H700 RNP 4.0 SACLANT software will have to be modified due to the fact that 7.2B H6000 software returns the message "HIS TIMESHARING ON mm/dd/yy at H.FTT TERMINAL xx TS1" instead of "SYSTEM?" upon the successful completion of log-on.
- b. Page 2-6 of the WWMCCS SRNP Test and Verification Procedures has the DUMP 64 Program Generation numbered as Test SAC2-03. Page 2-8 has the Disk Format Procedure also identified as SAC2-03. For purposes of this report, the Disk Format Procedure is identified as SAC2-03A.
- c. Page 2-6.2 of the WWMCCS SRNP Test and Verification Procedures identified as SAC2-04. Page 2-11 has the SMC Generation also identified as SAC2-04. For purposes of this report, the SMC Generation is identified as SAC2-04A.

3.2 Conclusion

No other 7.2B SACLANT - H700 RNP 4.0 SACLANT compatibility problems were discovered during this testing effort.

APPENDIX A
FEATURES/TESTS CROSS REFERENCE

	<u>Feature</u>	<u>Test</u>
SRNP	Initialization	
	HRSS RSTOREMAST	SAC2-01
	HRSS Assembly	SAC2-02
	DUMP 64 Generation	SAC2-03
	Disk Formatter	SAC2-03A
	Link Text Loader Generation	SAC2-04
	SMC Generation	SAC2-04A
	SRNP UPS Generation	SAC2-05
	SRNP Bootload	SAC4-01
	INITIALIZE ...	
	YES	SAC4-01
	NO	SAC7-02
	Off-Line Command Processor	
	Bootload	SAC3-01
	is current disk dictionary OK?	
	CR /new disk	SAC3-02
	YES /disk ok	SAC7-01
	No /reinitialize	
	HELP	
	END /EXIT /STOP	
	CARDS	SAC7-03
	TTY	SAC7-03
	DELETE	
	DICTIONARY	
	GENERAL	SAC3-02
	LIST	SAC3-02 SAC7-01
	OCTAL	
	DECIMAL	

ASCII /SOURCE /CHARACTER

SAC3-02

SYSTEM

CORE

(non-CORE)

FORMAT

SAC7-01

BOOTSTRAP

OVERLAY

<u>FEATURE</u>	<u>TEST</u>
<u>TSS Restricted Commands</u>	<u>Restricted ID</u> <u>Nonrestricted ID</u>
BASI	SAC6-01
DATA	SAC6-01
JOVI	SAC6-01
YFOR	SAC6-01
FORT	SAC6-01
ALGO	SAC6-01
CDIN	SAC6-01
LODX	SAC6-01
NEWU	SAC6-01
TSAR	SAC6-01
TSRI	SAC6-01
BASY	SAC6-01
FDUM	SAC6-01
SABT	SAC6-01
RECO	SAC6-01
BEXP	SAC6-01
RUNY	SAC6-01
JDAC	SAC6-01
LODS	SAC6-01
LODT	SAC6-01
TRAC	SAC6-01
IDSQ	SAC6-01
PSWD	SAC6-01
LDSP	SAC6-01
DCLT	SAC6-01
QANL	SAC6-01

<u>FEATURE</u>	<u>TEST</u>	
<u>TSS Restricted Commands</u>	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
EXUT	SAC6-01	
TRFL	SAC6-01	
OPRM	SAC6-01	
OREC	SAC6-01	
OFLD	SAC6-01	
DBLP	SAC6-01	
DBRT	SAC6-01	
DBCR	SAC6-01	
DBDE	SAC6-01	
DBVE	SAC6-01	
DBAN	SAC6-01	
.YP0	SAC6-01	
.YP1	SAC6-01	
.YP2	SAC6-01	
.YP3	SAC6-01	
.YP4	SAC6-01	
.YP5	SAC6-01	
.YP6	SAC6-01	
.YLD	SAC6-01	
YLDB	SAC6-01	
DSTS	SAC6-01	
PERF	SAC6-01 SAC6-05 SAC6-05	SAC6-04
WWDI	SAC6-01 SAC6-05 SAC6-06	SAC6-04
PRIV	SAC6-01 SAC6-05 SAC6-06	SAC6-04 SAC6-07

<u>FEATURE</u>	<u>TEST</u>	
<u>TSS Restricted Commands (cont.)</u>	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
LIBU	SAC6-01	
CWGA	SAC6-01	
CWGB	SAC6-01	
CWGC	SAC6-01	
CWGD	SAC6-01	
CWGH	SAC6-01	
CWGI	SAC6-01	
IIDS	SAC6-01	
DBCS	SAC6-01	
DTCO	SAC6-01	
DTVF	SAC6-01	
DTAB	SAC6-01	
DTGF	SAC6-01	
DTLS	SAC6-01	
TALK	SAC6-01	
MESS	SAC6-01	
STUS	SAC6-01	
MONI	SAC6-01	
WHOS	SAC6-01	
UPDA	SAC6-01	
SMCL	SAC6-01	
PRI0	SAC6-01	
MUPD	SAC6-01	
MAST	SAC6-01	
TCON	SAC6-01	
JRUN	SAC6-01	
WISP	SAC6-01	

<u>FEATURE</u>	<u>TEST</u>	
<u>TSS Restricted Commands (cont.)</u>	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
GRID	SAC6-01	
COBR	SAC6-01	
SORT	SAC6-01	

<u>FEATURE</u>	<u>TEST</u>	
<u>TSS Nonrestricted Command</u>	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
CARD	SAC6-03	
ACCE	SAC6-03	
EDIT	SAC6-02 SAC6-03	
EDTX	SAC6-03	
BYE	SAC6-03	
LOGO	SAC6-03	
STAT	SAC6-03	
CONN	SAC6-03	
HELP	SAC6-03	
SAVE	SAC6-03	
RESE	SAC6-03	
DELE	SAC6-03	
OLDN	SAC6-03	
BSED	SAC6-03	
LIST	SAC6-03	
LENG	SAC6-03	
TAPE	SAC6-03	
EDBN	SAC6-03	
NEW	SAC6-03	
TERM	SAC6-03	
AUTO	SAC6-03	
LINE	SAC6-03	
GET	SAC6-03	
CATA	SAC6-03	
PERM	SAC6-03	
REMO	SAC6-03	

<u>FEATURE</u>	<u>TEST</u>	
<u>TSS Nonrestricted Command (cont.)</u>	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
PRIN	SAC6-03	
SCAN	SAC6-03	
RUNO	SAC6-03	
JSTS	SAC6-03	
ABC	SAC6-03	
HOLD	SAC6-03	
SEND	SAC6-03	
JABT	SAC6-03	
ASCB	SAC6-03	
BPRI	SAC6-03	
BPUN	SAC6-03	
APRI	SAC6-03	
BCDA	SAC6-03	
PURG	SAC6-03	
RELE	SAC6-03	
ERAS	SAC6-03	
RESA	SAC6-03	
JMES	SAC6-03	
NOPA	SAC6-03	
PARI	SAC6-03	
JOUT	SAC6-03	
ASCA	SAC6-03	
PWSS	SAC6-03	
TSEC	SAC6-03	
LEAD	SAC6-03	
SYST	SAC6-03	
EBLD	SAC6-03	

<u>FEATURE</u>	<u>TEST</u>	
	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
<u>TSS Nonrestricted Command (cont.)</u>		
CRUN	SAC6-03	
DABT	SAC6-03	
DRUN	SAC6-03	
CPOS	SAC6-03	
CMOD	SAC6-03	
COUT	SAC6-03	
REDI	SAC6-03 SAC6-05 SAC6-06	SAC6-04 SAC6-07
WWDM	SAC6-03 SAC6-05 SAC6-06	SAC6-04 SAC6-07
B3RU	SAC6-03	
WWP2	SAC6-03	
WWP3	SAC6-03	
WWP4	SAC6-03	
WWPQ	SAC6-03	
WWPG	SAC6-03	
WWPC	SAC6-03	
WWTU	SAC6-03 SAC6-05 SAC6-06	SAC6-04
SINI	SAC6-03 SAC6-05 SAC6-06	SAC6-04 SAC6-07
DJST	SAC6-03 SAC6-05 SAC6-06	SAC6-04
ADFQ	SAC6-03 SAC6-05 SAC6-06	SAC6-04

<u>FEATURE</u>	<u>TEST</u>	
<u>TSS Nonrestricted Command (cont.)</u>	<u>Restricted ID</u>	<u>Nonrestricted ID</u>
WWBC	SAC6-03 SAC6-05 SAC6-06	SAC6-04
DFAU	SAC6-03 SAC6-05 SAC6-06	SAC6-04
WWLI	SAC6-03 SAC6-05 SAC6-06	SAC6-04
CMDL	SAC6-03	

<u>FEATURE</u>	<u>TEST</u>
Presence of UPS code to allow MDQS functions	
RUNS	SAC2-05
RUNP	SAC2-05
PERFORM	SAC2-05
PERF-MACROS	SAC2-05
PRIVACY	SAC2-05
WRITE	SAC2-05
UPD-CREATE	SAC2-05
UPD-RESTORE	SAC2-05
UPD-INSERT	SAC2-05
UPD-DELETE	SAC2-05
UPD-STORE	SAC2-05
KEEP	SAC2-05
SUBSET	SAC2-05
QUERY	SAC2-05
TALK	SAC2-05
RPT-COPY	SAC2-05
RUNJ	SAC2-05
BCL-BROWSE	SAC2-05
BCL-UPDATE	SAC2-05
BCL-LOAD	SAC2-05
BCL-EXTRACT	SAC2-05
RUNF	SAC2-05
ADF	SAC2-05
DDL	SAC2-05
RESTRUCTURE	SAC2-05
DIRECTORY	SAC2-05
DMS	SAC2-05

<u>Feature</u>	<u>Test</u>
Absence of UPS code to disallow MDQS functions	
RUNS	
RUNP	SAC2-05
PERFORM	SAC2-05
PERF-MACROS	SAC2-05
PRIVACY	SAC2-05
WRITE	
UPD-CREATE	
UPD-RESTORE	
UPD-INSERT	
UPD-DELETE	
UPD-STORE	
KEEP	
SUBSET	
QUERY	
TALK	
RPT-COPY	
RUNJ	
BCL-BROWSE	
BCL-UPDATE	
BCL-LOAD	
BCL-EXTRACT	
RUNF	
ADF	
DDL	

<u>Feature</u>	<u>Test</u>
Absence of UPS code to disallow MDQS functions	
RESTRUCTURE	
DIRECTORY	SAC2-05
DMS	

FEATURE

TEST

Remote Batch Functions

\$\$id userid\$password/class.	SAC5-08 SAC5-12
\$\$RCD	SAC5-08 thru SAC5-12
\$\$OUT	SAC5-08 SAC5-09 SAC5-11 SAC5-12
\$\$OUTsnumb	SAC5-10
\$\$DIS	SAC5-09 SAC5-11
\$\$TS	
\$\$STSid	
\$\$STSSnumb	SAC5-11
\$\$ABT	SAC5-11

APPENDIX B
TEST ANALYSIS REPORT AND
TEST RESULTS SUMMARY

TEST	DATE EXECUTED	SOFTWARE RELEASE	RESULT CODE	REMARKS ERROR MESSAGE AND COMMENTS	TRS NUMBER
SAC2-01	-	7.2B	*	HRSS tape provided by the Gov't. 7.2B OPCOM Module not provided by the Government	
SAC2-02	11/3/80	7.2B	x		
SAC2-03	11/3/80	7.2B	x		
SAC2-03A	11/3/80	7.2B	x		
SAC2-04	11/3/80	7.2B	x		
SAC2-04A	11/3/80	7.2B	x		
SAC2-05	11/3/80	7.2B	x		
SAC3-01	11/3/80	7.2B	x		
SAC3-02	11/3/80	7.2B	x		
SAC4-01	11/3/80	7.2B	x		
SAC4-02	-	7.2B	*		
SAC4-03	-	7.2B	*		
SAC4-04	11/3/80	7.2B	x		
SAC4-05	11/3/80	7.2B	x		

* Result Codes:

- X - Test terminated as expected and provided the expected output
- * - Test was not run - state reason
- F - Test failed to terminate as expected and/or provided unexpected results.

TEST RESULTS SUMMARY CHART

TEST	DATE EXECUTED	SOFTWARE RELEASE	RESULT CODE	REMARKS ERROR MESSAGE AND COMMENTS	TRS NUMBER
SAC5-01	11/17/80	7.2B	X	Test 1 & 2 of Section 5 only function when H700 software is patched during STARTUP.	
SAC5-02	11/17/80	7.2B	X		
SAC5-06	11/17/80	7.2B	X		
SAC5-07	11/17/80	7.2B	X		
SAC5-08	11/17/80	7.2B	X		
SAC5-09	11/17/80	7.2B	X		
SAC5-10	11/17/80	7.2B	X		
SAC5-11	11/17/80	7.2B	X		
SAC5-12	11/17/80	7.2B	F	The system would not read the entire run stream.	
SAC5-12.1	11/17/80	7.2B	X		
SAC5-13	11/17/80	7.2B	X		
SAC5-14	11/17/80	7.2B	X		
SAC5-15	11/17/80	7.2B	X		
SAC5-16	11/17/80	7.2B	X		
SAC5-17	11/17/80	7.2B	X		
SAC5-18	11/17/80	7.2B	X		
SAC5-19	11/17/80	7.2B	X		
SAC5-20	11/17/80	7.2B	X		
SAC5-21	11/17/80	7.2B	X		
SAC5-22	11/17/80	7.2B	X		
SAC5-23	11/17/80	7.2B	X		

* Result Codes:

- X - Test terminated as expected and provided the expected output
- * - Test was not run - state reason
- F - Test failed to terminate as expected and/or provided unexpected results.

TEST RESULTS SUMMARY CHART

TEST	DATE EXECUTED	SOFTWARE RELEASE	RESULT CODE	REMARKS ERROR MESSAGE AND COMMENTS	TRS NUMBER
SAC6-01	11/17/80	7.2B	x	Section 6 only functions properly with patches provided by Gov't.	
SAC6-02	11/17/80	7.2B	x		
SAC6-03	11/17/80	7.2B	x		
SAC6-04	11/17/80	7.2B	x		
SAC6-05	11/17/80	7.2B	x		
SAC6-06	11/17/80	7.2B	x		
SAC6-07	11/17/80	7.2B	x		
SAC7-01	11/17/80	7.2B	x		
SAC7-02	11/17/80	7.2B	x		
SAC7-03	11/17/80	7.2B	x		

* Result Codes:

- X - Test terminated as expected and provided the expected output
- * - Test was not run - state reason
- F - Test failed to terminate as expected and/or provided unexpected results.

TEST RESULTS SUMMARY CHART

APPENDIX C
TEST PACKAGE ABSTRACT

AREA

SACLANT RNP

REFERENCESACLANT Remote Network Processor User's GuideCLASSIFICATION

Test Package - Unclassified

Software Documentation - Unclassified

Computer Time - Unclassified/Shared

RESOURCESMan Hrs.Machine Hrs.

Review

6

Test

22

22

Analysis

4

32

22

SCOPE

SACLANT RNP consists of a modified version of the standard RNP software and a patch to the H6000 host software. The H700 software modifications provide additional security for logging and a record of terminal use. The TSS Patch prevents the restricted user from penetrating outside the MDQS subsystem, and reports attempts made by the users to access unsecure systems. The SACLANT Remote Network Processor Test and Verification Procedures are designed to test and evaluate the following functions:

1. Boot procedures
2. Remote Batch Terminal System (RBTS) operations and Remote Message Concentration System (RMCS) operations
3. RNP operator command capabilities
4. Effect of H6000 console commands on RNP operation
5. The ability of SACLANT to restrict specific users from executing unsecure TSS with MDQS commands.

APPENDIX D
TEST OUTPUT (Separately Bound)

**DAT
FILM**